In-House Green House (8051 Project with Project report and Presentation)

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In House-Green House

Yet another wonderful project submitted Harsh Pandya (pH) students of The Maharaja Sayajirao University Of Baroda, Gujarat. As the title says, This project is an automated Green house control system using microcontroller. Here is objective of this project taken from project report.

The objective of this project is to design a simple, easy to install, microcontroller-based circuit to monitor and record the values of temperature, soil moisture and sunlight of the natural environment that are continuously modified and controlled in order optimize them to achieve maximum plant growth and yield. The controller used is a low power, cost efficient and easily available. It communicates with the various sensor modules in real-time in order to control the light, aeration and drainage process efficiently inside a greenhouse by actuating a cooler, fogger, dripper and lights respectively according to the necessary condition of the crops. An integrated Liquid crystal display (LCD) is also used for real time display of data acquired from the various sensors and the same data is sent serially to a remote computer where complete data logging takes place. Also, the use of easily available components reduces the manufacturing and maintenance costs. The design is quite flexible as the software can be changed any time. It can thus be tailor-made to the specific requirements of the user.

This makes the proposed system to be an economical, portable and a low maintenance solution for greenhouse applications, especially in rural areas and for small scale agriculturists.

This project includes complete Code, schematic, project report, Power point presentation and various test modules. I again want to thank Harsh for making this great contribution to website.

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